

### AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in this application.

1. **(Currently amended)** A trocar adapted to provide access for a surgical instrument through a body wall and into a body cavity, comprising:

a cannula having a proximal end and a distal end;

a seal housing communicating with the cannula to define a working channel;

a seal assembly disposed within the seal housing; and

at least one conformable roller included in the seal assembly and having a substantially cylindrical outer surface, and an axle supported by the seal housing;

wherein the substantially cylindrical outer surface of the conformable roller is dimensioned and configured for forming a zero seal in the absence of an instrument extending therethrough, and for contacting with and conforming to an instrument, thereby forming an instrument seal in the presence of the instrument extending therethrough.

2. **(Original)** The trocar recited in Claim 1, wherein the roller is pivotal with the axle relative to the seal housing.

3. **(Original)** The trocar recited in Claim 1, wherein:  
the axle has a fixed relationship with the seal housing; and  
the roller has a pivotal relationship with the axle.

4. **(Original)** The trocar recited in Claim 1 wherein the roller in radial cross-section has the configuration of a geometric shape.

5. **(Original)** The trocar recited in Claim 4, wherein the geometric shape is a circle.

6. **(Withdrawn)** The trocar recited in Claim 4, wherein the geometric shape is a star.

7. **(Original)** The trocar recited in Claim 1, wherein the roller is a first roller, the axle is a first axle, and the trocar further comprises:

a second roller disposed on a second axle in sealing engagement with the first roller, the second axle having a general parallel relationship with the first axle.

8. (Original) The trocar recited in Claim 7, wherein:  
the first roller has the configuration of a first cylinder with a first radius;  
the second roller has the configuration of a second cylinder with a second radius; and  
the first axle is separated from the second axle a distance not greater than the sum of the first radius and the second radius.

9. (Previously presented) The trocar recited in Claim 1, wherein the roller is sized and configured to form the instrument seal with the instrument, the instrument seal having a diameter with an upper limit in a range between about six millimeters and twelve millimeters.

10. (Withdrawn) The trocar recited in Claim 1, further comprising:  
a spring for biasing the roller relative to the seal housing.

11. (Withdrawn) The trocar recited in Claim 1, wherein the roller is a first roller rotatable on a first axis and the trocar further comprises:  
a second roller rotatable on the first axis.

12. (Previously presented) The trocar recited in Claim 1, wherein the roller is a first roller rotatable on a first axis and the trocar further comprises at least one second roller rotatable on a second axis different than the first axis.

13. (Withdrawn) The trocar recited in Claim 12, further comprising:  
a least one third roller rotatable on a third axis different than the first axis and the second axis.

14. (Withdrawn) The trocar recited in Claim 1, wherein the roller comprises a toroid.

15. (Currently amended) A surgical combination, comprising:  
an instrument having a diameter of at least about one millimeter;  
an access device adapted to facilitate disposition of the instrument across a body wall;

a cannula included in the access device and having an axis extending between a proximal end and a distal end;  
a seal housing communicating with the cannula, to define a working channel with the cannula;  
a seal assembly disposed within the seal housing of the access device; and  
a roller included in the seal assembly, the roller ~~[[being]]~~ comprising a substantially cylindrical outer surface sized and configured to form a zero seal in the absence of the instrument, and to contact with and conform to the instrument, thereby forming an instrument seal therewith in the presence of the instrument.

16. (Original) The surgical combination recited in Claim 15, wherein the roller includes a gel material.

17. (Original) The surgical combination recited in Claim 15, wherein:  
the roller has an axle with two ends;  
at least one of the ends of the axle being supported by the housing.

18. (Original) The surgical combination recited in Claim 15, further comprising:  
an interior wall disposed within the seal housing; and  
the roller having properties for forming the zero seal with the interior wall.

19. (Original) The surgical combination recited in Claim 17, wherein the roller includes a gel material supported on the axle and rotatable with the axle relative to the seal housing.

20. (Original) The surgical combination recited in Claim 17, wherein the axle has a fixed relationship with the seal housing and the gel material is supported on the axle and rotatable relative to the axle.

21. **(Currently amended)** The surgical combination recited in Claim 15, wherein ~~[[the]]~~ a diameter of the instrument is at least about 5 millimeters.

22. (Original) The surgical combination recited in Claim 21, wherein the diameter of the instrument is at least about 10 millimeters.

23. (Original) The surgical combination recited in Claim 15, wherein the seal housing and the roller are formed of translucent materials.

24. (Currently amended) A trocar assembly, including:

a cannula extending along an axis between a proximal end and a distal end;

a seal housing communicating with the cannula to define a working channel;

a roller disposed within the seal housing, the roller ~~[[being]]~~ comprising a substantially cylindrical outer surface, wherein the roller is pivotal on an axis; and

a resilient material included in the roller, wherein

the resilient material is susceptible to tearing in response to an instrument inserted into the working channel,

the resilient material provides the substantially cylindrical outer surface of the roller with properties for forming a zero seal in the absence of the instrument, and an instrument seal in the presence of the instrument; and

the roller is moveable by the inserted instrument to pivot the resilient material relative to the axis to inhibit tearing of the resilient material.

25. (Original) The trocar assembly recited in Claim 24, wherein:

the roller has an end surface and a circumferential surface; and

an instrument inserted into the working channel encounters a frictional resistance associated with the end surface and a rolling resistance associated with the circumferential surface.

26. (Withdrawn) The trocar assembly recited in Claim 24, wherein:

the resilient material defines an outer surface of the roller; and

the outer surface has properties for wiping an instrument inserted into the working channel.

27. (Withdrawn) The trocar assembly recited in Claim 25, further comprising:

a washer disposed between the end surface of the roller and the seal housing.

28. (Withdrawn) The trocar assembly recited in Claim 27, wherein the washer includes at least one of polytetrafluoroethylene and a fabric.

29. (Withdrawn) The trocar assembly recited in Claim 26, wherein portions of the resilient material define at least one circumferential groove around the roller.

30. (Withdrawn) The trocar assembly recited in Claim 24 wherein the roller is a first roller, the axis is a first axis, and the trocar assembly further comprising:  
a second roller disposed within the seal housing and pivotal on the first axis.

31. (Original) The trocar assembly of Claim 24, wherein the roller is a first roller, the axis is a first axis, and the trocar assembly further comprises:  
a second roller disposed within the seal housing and being pivotal on a second axis different than the first axis.

32-46. (Canceled)

47. **(Currently amended)** A trocar assembly, comprising:  
a cannula having an axis extending between a proximal end and a distal end;  
a valve housing communicating with the cannula to define a working channel; and  
a roller valve disposed on an axle in the valve housing, the roller valve comprising a roller comprising a substantially cylindrical outer surface, wherein the roller valve comprises and including a compliant material, the [[valve]] substantially cylindrical outer surface having properties for forming a zero seal across the working channel in the absence of the instrument, and an instrument seal across the working channel in the presence of the instrument,  
wherein the instrument seal has a diameter in radial cross-section ranging from a lower limit of about zero millimeters to an upper limit greater than about 6 millimeters.

48. (Original) The trocar assembly recited in Claim 47, wherein the valve comprises:  
first portions forming a wall seal with the valve housing; and  
second portions forming the zero seal in the absence of the instrument in the working channel, and the instrument seal in the presence of the instrument in the working channel.

49. (Withdrawn) The trocar assembly recited in Claim 48, wherein the valve has properties for moving relative to the valve housing.

50. (Withdrawn) The trocar assembly recited in Claim 49, wherein the valve has properties for translating relative to the valve housing.

51. (Withdrawn) The trocar assembly recited in Claim 50 wherein the valve has properties for translating along a path disposed at an acute angle to the working channel.

52. (Withdrawn) The trocar assembly recited in Claim 49, wherein the valve has properties for pivoting relative to the valve housing.

53. (Withdrawn) The trocar assembly recited in Claim 52, wherein the valve has properties for rotating relative to the valve housing.

54. (Original) The trocar assembly reciting Claim 47, wherein the compliant material includes a gel.

55. (Withdrawn) The trocar assembly recited in Claim 47, wherein the compliant material of the valve includes an inflatable bladder.

56-67. (Canceled)